```
> RoadRace  <- read.csv("C:\\Users\\yxa210024\\Desktop\\Masters\\spring2023\\Stats for DS\\mini_p
roject2\\roadrace.csv", na.strings = "*")
> attach(RoadRace)
The following objects are masked from RoadRace (pos = 3):

    Age, Division, Division.Entrants, Division.Place, From.USA, Maine,
    Mile.pace..seconds., Place, Sex, State.Country, Time..minutes.,
    Time..seconds.

The following objects are masked from RoadRace (pos = 4):

    Age, Division, Division.Entrants, Division.Place, From.USA, Maine,
    Mile.pace..seconds., Place, Sex, State.Country, Time..minutes.,
    Time..seconds.

The following objects are masked from roadrace (pos = 6):

    Age, Division, Division.Entrants, Division.Place, From.USA, Maine,
    Mile.pace..seconds., Place, Sex, State.Country, Time..minutes.,
    Time..seconds.

The following objects are masked from roadrace (pos = 7):

    Age, Division, Division.Entrants, Division.Place, From.USA, Maine,
    Mile.pace..seconds., Place, Sex, State.Country, Time..minutes.,
    Time..seconds.

> colnames(RoadRace)
 [1] "Place"              "Division.Place"      "Division.Entrants"
 [4] "Division"           "Age"                 "Sex"
 [7] "State.Country"      "Time..seconds."      "Mile.pace..seconds."
[10] "From.USA"           "Maine"               "Time..minutes."
> barplot(table(Maine), main = "Bar Graph for Maine")
> table(Maine)
Maine
 Away Maine
 1417  4458
> prop.table(table(Maine))
Maine
     Away      Maine
0.2411915 0.7588085
> M <- subset(RoadRace  , Maine == "Maine")$Time..minutes.
> A <- subset(RoadRace , Maine == "Away")$Time..minutes.
> summary(M)
   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
  30.57   50.00   57.03   58.20   64.24  152.17
> summary(A)
   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
  27.78   49.15   56.92   57.82   64.83  133.71
> IQR(M)
[1] 14.24775
> IQR(A)
[1] 15.674
> hist(M, xlim = c(0, 200), ylim = c(0,2000), xlab = "Time", main = "Histogram for runner's time
of Maine")
> hist(A, xlim = c(0, 200), ylim = c(0,2000), xlab = "Time", main = "Histogram for runner's time
of Away")
> boxplot(Time..minutes.~Maine)
> Male <- Age[Sex == "M"]
> Female <- Age[Sex == "F"]
> summary(Male)
   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
   9.00   30.00   41.00   40.45   51.00   83.00
> summary(Female)
   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
   7.00   28.00   36.00   37.24   46.00   86.00
> save.image("C:\\Users\\yxa210024\\Desktop\\Masters\\spring2023\\Stats for DS\\mini_project2\\RC
_Maine")
> boxplot(Male, Female, names = c("M", "F"))
```

```
> boxplot(Male, Female)
> boxplot(Male, Female, names = c("Male", "Female"))
> IQR(Male)
[1] 21
Warning messages:
1: unable to open printer
2: opening device failed
> IQR(Male)
[1] 21
> IQR(Feale)
Error in quantile(as.numeric(x), c(0.25, 0.75), na.rm = na.rm, names = FALSE,  :
  object 'Feale' not found
> IQR(Female)
[1] 18
>
```